BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 25.00Lakhs

Name of Work: Drilling of borewell and providing pipeline to Allalsandra LBS Nagara and Kanakanagara in ward no 04

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.30, I. 9.4) PRED.SR 2008-09	NO							
	Basic Rate	1882.00	2				2	1882.00	3764.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 29/I.1 PRED SR 2006-07 and as per corragandam SE PRED No. 9.1/2008-09	Rmtr							
	0 to 50 m		2	50.00			100.00	315.18	31518.00
	50 to 100 m		2	50.00			100.00	412.00	41200.00
	100 to 150 m		2	50.00			100.00	458.35	45835.00
	150 to 200 m		2	50.00			100.00	484.10	48410.00
	200 to 250 m		2	50.00			100.00	560.32	56032.00
	250 to 300 m		2	50.00			100.00	600.49	60049.00

3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam SE PRED No. 2/2012-13	Rmtr							
			2	70.00			140.00		
							140.00	1325.00	185500.00
4	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work	Each							SR
			2	12.00			24.00		
							24.00	1100.00	26400.00
5	Providing and fixing 175mm Borewell Cap PRED SR 2012-13 Page Nio SL.No	Each	2				2	100.00	200.00
6	M S Casing pipe collar (P.No III, No 85, PRED 12-13) SR	Each	2	12.00			24	150.00	3600.00
7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 15.00 HP 30 stage (P.NOXXXX1 S.NO 34 of PWD SR for 2015-16)	Set							
	12.5 HP 20 Stage		2				2	70600.00	141200.00

8	Providing GI pipe pipes confirming to IS specification of approoved make with fittings such as bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per dierection including all lead & lift etc., complete A grade (Excluding cost of fitting) b50 mm dia GI pipes (SR 2015-16 PWDS page No XVII code 509 0154) B calss pipe 50 mm dia	Rmtr							SR
			2	270.00			540.00		
			1	200.00			200.00		
							740.00	321.00	237540.00
9	Providing & fixing socket GI (Heavy duty collar) (PWD SR Pg XXXviii) 50 mm dia	No							SR
			2	45.00			90.00		
			1	34.00			34.00		
							124.00	84.80	10515.20
10	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 (1x3x6.00 Sqmm PVC cable)	Mtr							SR
			2	550.00			1100.00		
			1	400.00			400.00		
							1500.00	126.70	190050.00
11	Supplying fully automatic stop delta starter unit push botton type with suitable wire 3 contractors one adjecstance thermal tomer mounted a common base plate held in steel enclosure for use on 400/440 votlts 3 phase and wired after fixing to the exisitng wooden board for motar above 15 HP upto 25 hp KPWD electrical SR for 2015-16 P.No 44 Item No 6.2.2	each							
			2				2.00	8273.00	16546.00

12	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 57 I. No.6.41 .20 KPWD Electrical SR 2014-2015	sq.mtr							
			4	1300.00		20.00	104000.00	0.33	34320.00
13	Fabricating and fixing of clamps set and borewell capped with pump	Nos	4				4.00	450.00	1800.00
14	Supplying and delivary and brand new best may gate wheel valve of size 50 mm dia as per IS 778/84 with latest amendments with ISI mark gate wheel wall PWD SR 2015-16 Page No XXIV P.No 673								
			4				4.00	1600.00	6400.00
15	Supplying and delivary and brand best make non return wall of dia 50 mm as per IS 778/84 with latest amondments with ISI Mark 50 mm non return wall for distributor pipeline 15 mm dia PWD SR 114 P.No XXIX Page No 460								
			4				3.00	1145.00	3435.00
16	Providing and fixing 50 mm dia GI bend with motor PWD SR 2013-14 XXXVIII GI fittings	Nos	30				30.00	219.00	6570.00
17	Providing and fixing 50 mm dia Nipple to motor motor PWD SR 2013-14 XXXVIII GI fittings	Nos	8				8.00	104.30	834.40
18	Providing and fixing 50 mm dia GI valve to the motor PWD SR 2013-14 XXXVIII GI fittings	Nos	20				20.00	223.70	4474.00

19	Labour charges for errection of new submersible pumpset along with 32/50 mm new submersible pumpset with GI pipes (32/50mm) cable (new submersible pumpset if require will be supplied by the department free of cost and released pump set should be handed over to department incldung transpoting (each length-6.00) (P.No558-3) (BWSSB SR 13-14)	Per length							
			2	45.00			90.00	88.00	7920.00
20	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications GROUP A (P.NO6.15.9/P.NO-54 ELE SR2014-2015)	Nos							
			4				3.00	1093.00	3279.00
21	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class. 4 core 16 Sqmm(confirming to IS 1554)P.NO(-553,s.no-10(d)bwssb sr(13-14)	Mtr							
			4	25.00			100.00	140.40	14040.00
22	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ I. No. 7.93 KPWD Electrical SR 2014-2015	Mtr							
			4	25.00			100.00	106.00	10600.00
23	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 69/ I No.15-A KPWD Electrical SR 2014-2015	Mtr							
			4	5.00			20.00	345.00	6900.00

24	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, P-62, I.No.7) KPWD Electrical SR 2014-2015	Nos							
			2				2.00	2727.00	5454.00
25	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 69/ I No. 7.132 KPWD Electrical SR 2014-2015	Each							
			4				4.00	280.00	1120.00
26	Supplying shunt trip capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications(p.no54 S.NO6.13 KPWD SR 2013-2014)	No							
			4				4.00	1350.00	5400.00
27	Providing and fixing Gun material whel valve confirming to IS specification of approved make as per direction incldiing all lead and lift etc., complete 50 mm dia (P.No 94, I.No 13.79.6 PWD SR 2015-16)	No							
			4				4.00	1526.40	6105.60
28	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 51/ I No.6.66 /f KPWD Electrical SR 2014-2015	Nos							
			6				6.00	302.00	1812.00

29	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	Cum							
			1	600.00	0.60	0.90	324.00		
	For GI pipe		1	250.00	0.60	0.90	135.00		
							459.00	283.02	129906.18
	Basic Rate	267.00							
	Area Weightage @ 6%	16.02							
	Total	283.02							
30	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plastesisre @ 3lts conforming etc as per specification&direction of the engineer incharge of work (pwd sr2015-16,p.no13,sno4.11)	Cum							
			1	700.00	0.45	0.40	126.00	6198.12	780963.12
	Basic rate	5739.00							
	Add 8% AW	459.12							
	Total	6198.12							
31	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.3 item No.4.2 PRE SR2008-09.	Rmtr							
	75mm Dia 6 KSC		1	300.00			300.00	157.00	47100.00
	63 mm		1	300.00			300.00	112.00	33600.00

32	Providing and installation at site of work 20mm GI pipes incldiuing cost of pipes and specials and labour incldiuing lowering into trenches laying ture to line complete as per specification as per direction of enginering for public taps for motor/pipeline (P.No 90, I.No 13.11 PWD SR 2015-16	mtr					—	—	
			3	10.00			30.00	196.10	5883.00
33	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per specifications, No. 6/ Item No. 2.11/ PWD SR 2015-16	Cum					—	—	
				Qty. Vide Item No. 28			378.00	76.32	28849.00
	Basic Rate	72.00							
	Area Weightage @ 6%	4.32							
	Total	76.32							2245124 (2260778.79)
									202061.10 (180862.30)
34	KRIDL charges 8%								50000.00
35	For BESCOM charges	L/S							2914.00 (3358.91)
36	Miscellaneous and Unforeseen Charges	L/S							
								Total	2500000.00

(Rupees twenty five lakhs only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of, PRED 2014-15 & SE-RDED approved Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 04

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Sattellite Sub Division
Bangalore.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Division

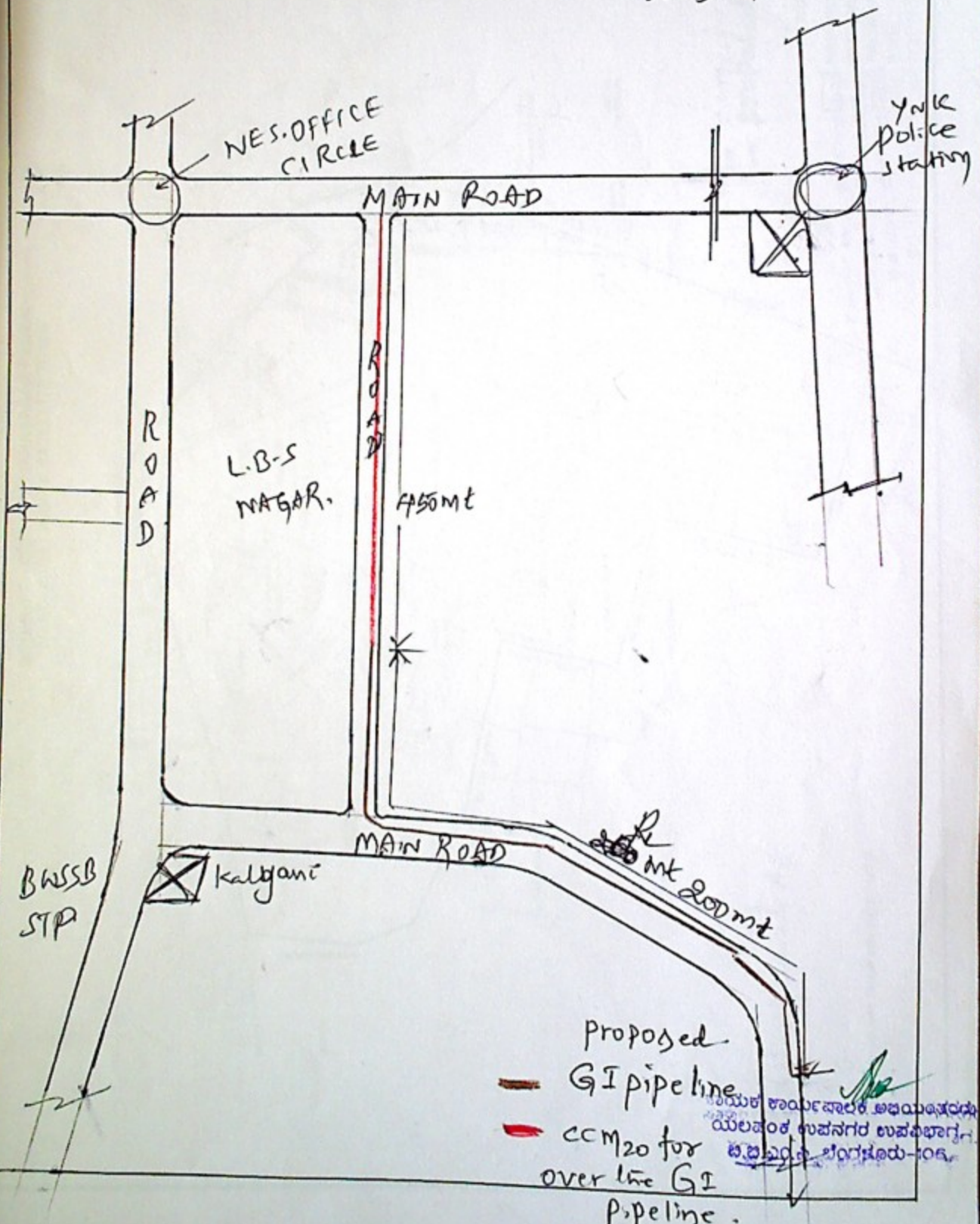
Administrative Approval
Accorded For "25.00" lakh Rs.
Head of A/C..... P0190...
CER NO :.....38..... Dt:..17.9.16

TA CE (YNK)

Technical Sanction
Accorded For ..25.00 lakh Rs.
Head of A/C..... P0190...
CER NO :.....47.. Dt:..17.09.16

TA CE (YNK)

DRILLING OF BOREWELL & PROVIDING PIPE LINE TO ALLALASANDRA LBS Nagar, & KANAKA NAGARA IN WNo.04.



ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು-೦೬